

Comparisons of Job Characteristics

Focus Occupation: Graduate Teaching Assistants (25-1191)

Associated Occupation: Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary (25-1051)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 56

Focus Occupation: Graduate Teaching Assistants (25-1191)

Associated Occupation: Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary (25-1051)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mathematics	9.2	22.1	10.6	<<	Extensive education and/or training may be required
Education and Training	9.2	21.6	17.8	<<	Extensive education and/or training may be required
Physics	4.3	21.0	3.6	<<	Extensive education and/or training may be required
English Language	11.2	20.3	16.7	<<	Extensive education and/or training may be required
Geography	3.9	17.2	5.0	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	16.3	14.4	<	Expanded education and/or training may be required
Chemistry	4.8	15.0	3.1	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.8	3.6	<<	Extensive education and/or training may be required
Biology	3.7	11.6	5.5	<<	Extensive education and/or training may be required
Communications and Media	5.3	10.2	9.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Speaking	10.8	18.3	10.8	<<	Extensive development of skills in this area may be required
Reading Comprehension	10.7	16.5	12.3	<<	Extensive development of skills in this area may be required
Writing	9.2	15.9	10.2	<<	Extensive development of skills in this area may be required
Active Listening	11.0	14.9	11.1	<<	Extensive development of skills in this area may be required
Instructing	7.8	14.5	10.8	<<	Extensive development of skills in this area may be required
Learning Strategies	7.2	14.4	7.2	<<	Extensive development of skills in this area may be required
Active Learning	8.7	13.6	6.7	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	12.6	7.9	<<	Extensive development of skills in this area may be required
Science	4.5	11.9	3.1	<<	Extensive development of skills in this area may be required
Systems Analysis	6.5	10.1	4.5	<<	Extensive development of skills in this area may be required
Systems Evaluation	6.4	9.9	4.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 97

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	19.2	14.5	<<	Extensive improvement in abilities may be required
Written Expression	9.8	17.5	11.5	<<	Extensive improvement in abilities may be required
Oral Comprehension	12.5	17.1	13.4	<<	Extensive improvement in abilities may be required
Written Comprehension	11.0	16.7	12.1	<<	Extensive improvement in abilities may be required
Speech Clarity	10.2	16.5	11.1	<<	Extensive improvement in abilities may be required
Inductive Reasoning	10.2	14.1	8.8	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	13.8	9.3	<<	Extensive improvement in abilities may be required
Mathematical Reasoning	6.3	10.0	4.7	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 95

Focus Occupation: Graduate Teaching Assistants (25-1191)

Associated Occupation: Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary (25-1051)

Work Activities	Exclusivity of Activity
Collect academic research data	62
Conduct field research or investigative studies	52
Conduct laboratory research or experiments	57
Convert information into instructional program	38
Design classroom presentations	45
Develop course or training objectives	42
Develop instructional materials	38
Evaluate student performance	46
Maintain educational records, reports, or files	43
Make education presentations	46
Organize educational material or ideas	41
Prepare educational reports	44
Record student progress	46
Teach college level courses	54
Use computers to enter, access or retrieve educational data	46
Use oral or written communication techniques	1
Use public speaking techniques	13
Use teaching techniques	29

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.